

IN THE CLAIMS

1. (Original) A vehicle roof system, comprising:
a roof frame having an inwardly pointing edge;
a roof module permanently and fixedly attached to the roof frame; and
a rigid safety element disposed in the roof module and having at least one portion extending toward the edge in a plane disposed below the edge.
2. (Previously presented) The vehicle roof system as recited in claim 1, wherein the safety element is spaced away from the edge during normal assembly of the roof frame and the roof module.
3. (Previously presented) The vehicle roof system as recited in claim 1, wherein the edge comprises a flange that is integrally formed with the roof frame as an inwardly-pointing extension of the roof frame.
4. (Previously presented) The vehicle roof system as recited in claim 3, wherein the flange is a plate-shaped sheet metal portion.
5. (Previously presented) The vehicle roof system as recited in claim 1, wherein the roof module is attached to the edge.
6. (Previously presented) The vehicle roof system as recited in claim 5, wherein the roof module is attached to the edge by an adhesive.
7. (Previously presented) The vehicle roof system as recited in claim 6, wherein the adhesive forms a continuous adhesive bead on the entire edge.
8. (Previously presented) The vehicle roof system as recited in claim 1, wherein the roof module is attached to the edge by at least one fastener.

9. (Previously presented) The vehicle roof system as recited in claim 1, wherein the safety element is a sheet metal part.

10. (Previously presented) The vehicle roof system as recited in claim 1, wherein the roof module comprises an exterior skin and a foam backing, wherein at least a portion of the safety element is embedded in the foam backing under the exterior skin.

11. (Previously presented) The vehicle roof system as recited in claim 10, wherein the safety element is completely embedded in the foam backing.

12. (Previously presented) The vehicle roof system as recited in claim 1, wherein the safety element has a hollow profile that is open towards the edge, the hollow portion receiving the edge in the event of a displacement of the edge toward the safety element.

13. (Previously presented) The vehicle roof system as recited in claim 12, wherein the safety element has a C-profile.

14. (Previously presented) The vehicle roof system as recited in claim 12, wherein the safety element has a double-T profile.

15. (Previously presented) The vehicle roof system as recited in claim 1, wherein the safety element is a surrounding reinforcement frame of the roof module.

16. (Previously presented) The vehicle roof system as recited in claim 15, wherein the reinforcement frame is continuous.

17. (Previously presented) The vehicle roof system as recited in claim 1, further comprising a seal that forms a sealed connection between the roof module and the roof frame.

18. (Original) A vehicle roof system, comprising:
a roof frame having an inwardly pointing edge, the edge comprising a flange that is integrally formed with the roof frame; and
a roof module permanently and fixedly attached to the flange by at least one of an adhesive and at least one fastener, the roof module having an exterior skin and a foam backing;
and
a rigid safety element at least partially embedded in the foam backing under the exterior skin, the safety element having first and second portions extending toward the flange, wherein the safety element is spaced away from the flange during normal assembly of the roof frame and the roof module, and
wherein the first portion extends in a plane disposed below the flange and the second portion extends in a plane disposed above the flange to form hollow profile that is open towards the edge, the hollow portion receiving the edge in the event of a displacement of the edge toward the safety element.
19. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the flange is formed from a plate-shaped sheet metal portion.
20. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the adhesive forms a continuous adhesive bead on the entire edge.
21. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the safety element is a sheet metal part.
22. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the safety element is completely embedded in the foam backing.
23. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the safety element has a C-profile.

24. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the safety element has a double-T profile.

25. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the safety element is a surrounding reinforcement frame of the roof module.

26. (Currently Amended) The vehicle roof system as recited in claim 18, wherein the reinforcement frame is continuous.

27. (Currently Amended) The vehicle roof system as recited in claim 18, further comprising a seal that forms a sealed connection between the roof module and the roof frame.

28. (Previously presented) A vehicle roof system for a vehicle having a roof frame with an inwardly pointing edge, the system comprising:

a roof module permanently and fixedly attached to the roof frame; and

a rigid safety element disposed in the roof module and having at least one portion extending toward the edge in a plane disposed below the edge.

29. (Previously presented) The vehicle roof system as recited in claim 28, wherein the safety element is spaced away from the edge during normal assembly of the roof frame and the roof module.

30. (Previously presented) The vehicle roof system as recited in claim 28, wherein the roof module is attached to the edge.

31. (Previously presented) The vehicle roof system as recited in claim 30, wherein the roof module is attached to the edge by an adhesive.

32. (Previously presented) The vehicle roof system as recited in claim 31, wherein the adhesive forms a continuous adhesive bead on the entire edge.

33. (Previously presented) The vehicle roof system as recited in claim 28, wherein the roof module is attached to the edge by at least one fastener.

34. (Previously presented) The vehicle roof system as recited in claim 28, wherein the safety element is a sheet metal part.

35. (Previously presented) The vehicle roof system as recited in claim 28, wherein the roof module comprises an exterior skin and a foam backing, wherein at least a portion of the safety element is embedded in the foam backing under the exterior skin.

36. (Previously presented) The vehicle roof system as recited in claim 35, wherein the safety element is completely embedded in the foam backing.

37. (Previously presented) The vehicle roof system as recited in claim 28, wherein the safety element has a hollow profile that is open towards the edge, the hollow portion receiving the edge in the event of a displacement of the edge toward the safety element.

38. (Previously presented) The vehicle roof system as recited in claim 37, wherein the safety element has a C-profile.

39. (Previously presented) The vehicle roof system as recited in claim 37, wherein the safety element has a double-T profile.

40. (Previously presented) The vehicle roof system as recited in claim 28, wherein the safety element is a surrounding reinforcement frame of the roof module.

41. (Previously presented) The vehicle roof system as recited in claim 28, wherein the reinforcement frame is continuous.

42. (Previously presented) The vehicle roof system as recited in claim 29, further comprising a seal that forms a sealed connection between the roof module and the roof frame.